

ALINCO

Quality. Style. Performance!

DMR
DIGITAL MOBILE RADIO ASSOCIATION

VHF/UHF Dual Band Transceiver

DR-MD500 ^{FC}

**Featuring
Auto Repeater
Roaming!**



■ DMR Tier I and Tier II

■ MAX output power 55W(VHF) / 40W(UHF)

■ 4000 channels, 250 zones, 250 scan lists

■ 300,000 Digital contact list

■ Large 1.77 inch full color LCD display

■ Preset Digital encryption codes



Real Two-slot
DMR



Cross-band
Repeater



Digital Voice
Recorder



Plenty of
Text Messages

Versatile features

Common to Digital and Analog modes



- 4000 channels, 250 zones, 250 scan lists
- Displays DMR ID, Call sign, Name and Geographical info
- Allows CSV export/import of setting parameters
- Easy import of DMR contact database (entire world wide)
- Single or dual channel selectable
- FM Broadcasting receiver with 100 memory channels and VFO
- Manually programmable Side and Hot keys
- Automatic date and time calibration by GPS
- X-band repeat, Analog uplink/Digital downlink or vice versa
- Emergency alarm
- Mixed Mode Operation: Automatically detects and switches between analog and digital modes depending on the signal received
- Recording time 4 Hours

Digital mode

- 10,000 Talk Groups, 250 Radio ID, 300,000 contact lists
- Displays the Caller ID and name
- 32 preset encryption codes plus 255 preset AES 256bit Encryption codes
- Selective calls including Individual, Group or All
- Digital Monitor function to receive signals without matching ID or color codes
- Plenty of Text Messages 100 pre-programmable short messages of up to 200 characters each, capable of editing through the keys without using a PC

Analog mode

- Variety of signaling; CTCSS/DCS/DTMF/ 2-TONE/5-TONE encode and decode
- Four different Tone-burst tones
- Programmable Auto Repeater Shift in VFO mode
- Kill & Stun functions

Specifications

General

Frequency Range	TX/RX	136 - 174MHz / 400 - 480MHz
	RX only	76-108MHz
Number of Channels		4000ch
Zones per Radio		250 zone (MAX 250ch/zone)
Channel Spacing	Analog	12.5/25kHz
	Digital	12.5kHz
Operating Voltage		13.8V DC nominal $\pm 15\%$
Operating Temperature Range		-20°C to +60°C (-4 °F to +140 °F)
Frequency Stability		$\pm 2.0\text{ppm}$
Antenna Impedance		50Ω
Dimensions (W x H x D Approx.) with battery pack		141 x 40 x 188 mm (5.55 x 1.57 x 7.40 inches)
Weight (Approx.)		1.04 kg / 36.68 ounces

Transmitter

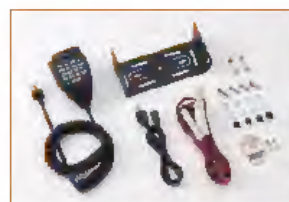
RF Power Output	VHF : 55W (144-148MHz) / 50W / 25W / 10W / 1W
	UHF : 40W / 25W / 10W / 1W
Spurious Emission	Less than 1GHz : -36dBm
	More than 1GHz : -30dBm
FM Hum & Noise (Analog)	25kHz : 40dB
	12.5kHz : 36dB
Modulation	Analog : 16K0F3E / 11K0F3E
	Digital : 7K60FXD / 7K60FXE

Receiver

Sensitivity (Analog/12dB SINAD)	25kHz : 0.25uV
	12.5kHz : 0.35uV
Sensitivity (Digital/BER)	5% : 0.3uV
	1% : 0.7uV
FM Hum & Noise (Analog)	25kHz : 45dB
	12.5kHz : 40dB
Audio Distortion	Less than 5%
Audio Output	2W / 8Ω

Standard Accessories

Microphone	Mobile Bracket	DC Cable
EMS-88 with DTMF keyboard	ADFM78	ADUA38 with Fuse Holder
Spare Fuses (15A) 2pcs	Hardware Kit for Bracket	Mic Hanger
		ERW-21 PC Interface Cable



Standard accessories declared herein are our factory default and may vary at moment of sales depending on the market and Dealers' sales policy.

Authorized Dealer:

Copyright Alinco, Inc., Osaka, Japan. All rights reserved. Although Alinco has designed this brochure to be as accurate and comprehensive as possible, we reserve the right to make changes at any time to our equipment line, optional accessories, specifications, standard accessories, or availability of any such devices we manufacture and distribute. Please note that certain products and accessories may not be available in all countries of distribution therefore consult your Authorized Alinco Dealer for product availability and pricing. Colors of images herein may appear slightly different from actual products due to print.
 * Projections are not included in the declared dimension values.
 * Operator license may be required. Please consult your dealer for details.



Please be sure to read the instruction manual before using the product for your safety.



ALINCO

INCORPORATED / Electronics Division

Yodoyabashi Dai-Bldg 13F, 4-4-9 Korabashi,
 Chuo-ku, Osaka 541-0043 Japan
 Phone: +81-6-7636-2362 Fax: +86-6-8208-3802
 http://www.ALINCO.com
 E-mail: export@alinco.co.jp

FNFNFNFN-PE
 Ver.1.0 MD500
 Printed in Japan